West Virginia Grade 6

FlyBy Math™ Alignment
Mathematics Content Standards and Objectives

Standard 2: Algebra (MA.S.2)

Students will:
- demonstrate understanding of patterns, relations, and functions;
- represent and analyze mathematical situations and structures using algebraic symbols;
- use mathematical models to represent and understand quantitative relationships; and
- analyze change in various contexts

through communication, representation, reasoning and proof, problem solving, and making connections within and beyond the field of mathematics.

Algebra Objectives Students will:	***FlyBy Math*™ Activities**
MA.6.2.4 use input/output models and spreadsheets to evaluate functions.	--Use tables, graphs, and equations to solve aircraft conflict problems.
MA.6.2.8 locate and plot points within the four segments.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.
MA.6.2.9 use variables to represent and solve real world problems appropriate for the 6th grade using multiple strategies.	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system. --Use tables, graphs, and equations to solve aircraft conflict problems.

Standard 4: Measurement (MA.S.4)

Students will:
- demonstrate understanding of measurable attributes of objects and the units, systems, and processes of measurement; and
- apply appropriate techniques, tools and formulas to determine measurements

through communication, representation, reasoning and proof, problem solving, and making connections within and beyond the field of mathematics.

Measurement Objectives Students will:	***FlyBy Math*™ Activities**
MA.6.4.5 select appropriate units and determine length, weight/mass and capacity/volume using metric and customary systems.	--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.

Standard 5: Data Analysis and Probability (MA.S.5)

Students will:

- formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them;
- select and use appropriate statistical methods to analyze data;
- develop and evaluate inferences and predictions that are based on models; and
- apply and demonstrate an understanding of basic concepts of probability

through communication, representation, reasoning and proof, problem solving, and making connections within and beyond the field of mathematics.

Data Analysis and Probability Objectives Students will:	***FlyBy Math*™ Activities**
MA.6.5.1 collect, organize, display, and read data using appropriate graphs and tables.	--Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs. --Use tables, bar graphs, line graphs, equations, and a Cartesian coordinate system to draw conclusions.